

**ABSTRACT**

Methods and related equipment for measuring components of exhaled breath of a subject are provided which involve causing the subject to exhale into an appropriate apparatus for receiving exhaled breath; increasing the pressure in the mouth of the subject to a level sufficient to close the vellum and isolate the nasopharynx during exhalation; a means of monitoring nasal CO<sub>2</sub> to confirm vellum closure; and measuring the level of one or more components of the collected exhaled breath. Endogenous nitric oxide is a preferred component of exhaled breath for monitoring and analysis.

5

0382703-040997